Name _____ Date _____

Conics

(Answer ID # 0798697)

Find the distance between P and Q and the coordinates of the midpoint between the two points.

1. P(-9 , 4) and Q(-5 , 4)	2. P(3 , -9) and Q(13 , -9)
3. P(-1 , 5) and Q(-1 , 19)	4. P(-10 , -1) Q(-25 , -4)
5. P(7 , $10\frac{2}{3}$) and Q(-9 , -5)	6. P(2 , -9) and Q(8 , -17)
7. P(-12 , -10) and Q(-6 , 0)	8. P(-6 , -8) and Q(-10 , -25)
9. P($-10\frac{4}{11}$, $-11\frac{9}{10}$) and Q(6 , 10)	10. P(-7 , 5) and Q(-21 , -1)
11. P(-4 , -5) Q(0 , 4)	12. P(-11 , 4) and Q(-9 , 16)
13. P(-6 , -2) and Q(-14 , -15)	14. P($-4\frac{7}{8}$, 1) and Q(-12 , 13)
15. P(-1 , 4) and Q(-4 , $-8\frac{3}{4}$)	16. P(-8 , 10) and Q(8 , -2)

Name _____ Date _____

Conics

(Answer ID # 0584851)

Find the distance between P and Q and the coordinates of the midpoint between the two points.

1. P(-9 , 4) and Q(-5 , 4) **midpoint=(-7 , 4)** **distance=4**	2. P(3 , -9) and Q(13 , -9) **midpoint=(8 , -9)** **distance=10**
3. P(-1 , 5) and Q(-1 , 19) **midpoint=(-1 , 12)** **distance=14**	4. P(-10 , -1) Q(-25 , -4) **midpoint=$(-17\frac{1}{2}$, $-2\frac{1}{2})$** **distance=$3\sqrt{26}$**
5. P(7 , $10\frac{2}{3}$) and Q(-9 , -5) **midpoint=$(-1$, $2\frac{5}{6})$** **distance=$\sqrt{501\frac{4}{9}}$**	6. P(2 , -9) and Q(8 , -17) **midpoint=(5 , -13)** **distance=10**
7. P(-12 , -10) and Q(-6 , 0) **midpoint=(-9 , -5)** **distance=$2\sqrt{34}$**	8. P(-6 , -8) and Q(-10 , -25) **midpoint=$(-8$, $-16\frac{1}{2})$** **distance=$\sqrt{305}$**

9. P$(-10\frac{4}{11}$, $-11\frac{9}{10})$ and Q(6 , 10)

midpoint=$(-2\frac{2}{11}$, $\frac{-19}{20})$

distance=$\sqrt{747\frac{4581}{12100}}$

10. P(-7 , 5) and Q(-21 , -1)

midpoint=(-14 , 2)

distance=$2\sqrt{58}$

11. P(-4 , -5) Q(0 , 4)

midpoint=$(-2$, $\frac{-1}{2})$

distance=$\sqrt{97}$

12. P(-11 , 4) and Q(-9 , 16)

midpoint=(-10 , 10)

distance=$2\sqrt{37}$

13. P(-6 , -2) and Q(-14 , -15)

midpoint=$(-10$, $-8\frac{1}{2})$

distance=$\sqrt{233}$

14. P$(-4\frac{7}{8}$, 1) and Q(-12 , 13)

midpoint=$(-8\frac{7}{16}$, 7)

distance=$\sqrt{194\frac{49}{64}}$

15. P(-1 , 4) and Q$(-4$, $-8\frac{3}{4})$

midpoint=$(-2\frac{1}{2}$, $-2\frac{3}{8})$

distance=$\sqrt{171\frac{9}{16}}$

16. P(-8 , 10) and Q(8 , -2)

midpoint=(0 , 4)

distance=20